

# Government Relations update

Louise Suter, Fermilab UEC

UEC meeting Aug 4th 2017





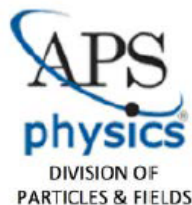
# 2018 Appropriations Community Letter

A letter written by the FNAL, SLAC and US LHC users group and DPF EC was finalized and sent out to House and Senate Energy & Water Appropriations Committees June 2017.

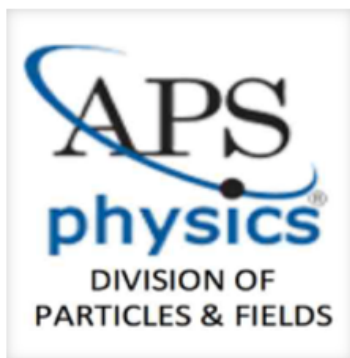
*“As you prepare a fiscal year 2018 Energy and Water Development appropriations bill, we strongly urge you to provide \$868 million for High Energy Physics in FY2018. This funding level is vital to maintain U.S. leadership in particle physics, move forward with world-class scientific projects, and meet scheduled commitments to our international partners.*

*We ask that the \$868 million include support for construction of the Long Baseline Neutrino Facility/Deep Underground Neutrino Experiment (LBNF/DUNE) at Fermilab, and for the upgraded High Luminosity Large Hadron Collider (HL-LHC) accelerator and experiments at CERN. “*

Letter was made available to community via email from DFP, along with convenient tool to contact your rep. (<https://goo.gl/Z3dh8X>)



House and senate E&W approp. mark up bills now been release with \$825M and \$860M respectively



## DPF: Ask Congress to reject the proposed high energy physics budget cuts

Enter your information here to send Congress a letter in response to the President's proposed budget cuts for high energy physics, which include an 18.5% cut to the Department of Energy's Office of Science High Energy Physics program, and an 11% cut to the National Science Foundation. You can read APS's statement about the proposed budget cuts here: "[APS Response to Trump's Cut to Science](#)." Do not use a government email address.

### Contact Information

Prefix \*

First Name \*

Last Name \*

Email \*

Phone \*

Address \*

### Message



United States Senators



United States Representative

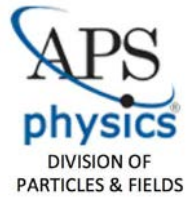
RE: Constituent Concern: President's proposed budget cuts for high energy physics

As a member of the high energy physics community and your constituent, I urge you to continue strong Congressional support for federal scientific research, at or above FY2017 levels, including high energy physics research funded by the U.S. DOE Office of High Energy Physics and the National Science Foundation.

If enacted, the President's request would have dire, long-term consequences for high energy physics - both for our highest priority projects and the field as a whole. Loss



# Community 2018 Appropriations House Letter



June 2, 2017

Chairman Mike Simpson  
Subcommittee on Energy and Water  
Development  
Committee on Appropriations  
2362-B Rayburn House Office Building  
Washington, D.C. 20515

Ranking Member Marcy Kaptur  
Subcommittee on Energy and Water  
Development  
Committee on Appropriations  
1016 Longworth House Office  
Washington, D.C. 20515

Dear Chairman Simpson and Ranking Member Kaptur:

We are writing on behalf of the U.S. community of approximately 6,000 scientists, engineers and students from 160 universities and DOE national labs that conducts research on high energy physics. We thank you for your continued support for the High Energy Physics (HEP) program in the DOE Office of Science. As you prepare a fiscal year 2018 Energy and Water Development appropriations bill, we strongly urge you to provide \$868 million for High Energy Physics in FY2018. This funding level is vital to maintain U.S. leadership in particle physics, move forward with world-class scientific projects, and meet scheduled commitments to our international partners.

We ask that the \$868 million include support for construction of the Long Baseline Neutrino Facility/Deep Underground Neutrino Experiment (LBNF/DUNE) at Fermilab, and for the upgraded High Luminosity Large Hadron Collider (HL-LHC) accelerator and experiments at CERN. These are the two highest priority large projects, and critical to maintain U.S. leadership in particle physics over the next several decades. LBNF/DUNE is an international neutrino facility hosted in the U.S. This level of funding is needed to enable prototype detector construction with our international partners as well as to excavate underground caverns that will house the final neutrino detectors. Funding for the HL-LHC enables leading U.S. responsibilities including essential upgrades to the accelerator and experiments, to empower the next round of discoveries at the highest energies.

In addition to these major projects, the \$868 million funding level will advance and support world-leading undertakings including the next generation dark matter and dark energy experiments which are critical to understanding what makes up our universe and what is causing its expansion, as well as particle physics and accelerator research at universities and DOE national labs across the U.S. Funding at this level would continue to drive forward the stream of innovations that result as we push the boundaries of technology development, from superconducting magnets, to accelerator-based medical treatment and biomedical research, to advanced scientific computing; innovations whose benefits improve the quality of our daily lives.

Our priorities are based on the 10-year strategic plan "Building for Discovery", also known as P5, that was developed by the High Energy Physics community in close consultation with our funding agencies. Our community has come together behind the P5 plan, its compelling comprehensive scientific vision, and the tough decisions made to fit the research program within the available funding envelope. Our community continues to achieve its groundbreaking scientific milestones,

and has an excellent track record of delivering projects on time and on budget. Since the implementation of the P5 strategic plan in 2014, we have explored the nature of the Higgs boson and new states of four-quark matter with LHC experiments that have outperformed expectations, delivered the world's highest intensity neutrino beam, set the world's best constraints on dark matter, constructed a successful prototype of the strongest accelerator magnet ever built, and demonstrated multi-stage acceleration in laser-driven plasmas.

The President's budget request for FY2018 of \$672.7M, an 18.5% cut below the FY2017 enacted level, falls far short of the funding needed for a healthy HEP program, and further short of a world-leading program. The PBR, if enacted, would have dire, long-term consequences both for our highest priority projects and for the field as a whole. The P5 report warned of the impact of such budgets on the field. Research would be severely compromised through reductions in scientific staff, failure to attract the best minds, and major cuts to operations of user facilities that support hundreds of scientists and students. Projects for future research, such as LBNF/DUNE, would be substantially delayed, and costs would increase. Existing international commitments, such as for the HL-LHC, would be jeopardized, and international partnerships that are fundamental to particle physics as a global field would be damaged, with lasting consequences. Training of the science and technology workforce would be dramatically reduced, and the inspiration and attraction to the public and the future workforce would be compromised.

Robust funding, at the \$ 868M level, is necessary to build on recent progress. We are grateful for your continued leadership in funding this important field of science.

Professor Marcela Carena  
Chair Division of Particles and Fields  
of the American Physical Society  
Enrico Fermi Institute and Kavli Institute  
for Cosmological Physics  
Department of Physics at The University of Chicago  
5460 Ellis Ave.  
Chicago, IL 60637

Professor Edward Kearns  
Chair Fermilab Users Executive Committee  
Boston University Physics Department  
590 Commonwealth Ave.  
Boston, MA 02215

Professor Harvey B Newman  
Chair US LHC Users Executive Committee  
Charles C. Lauritsen Laboratory of High Energy Physics  
Division of Physics, Mathematics and Astronomy  
California Institute of Technology  
1200 East California Boulevard  
Pasadena, CA 91125

Dr. Nicola Omodei  
Chair SLAC Users Organization Executive Committee  
Hansen Experimental Physics Laboratory and  
Kavli Institute for Particle Astrophysics and Cosmology  
Stanford University  
Stanford, CA 94035

<https://goo.gl/aOrxMR>



# Community 2018 Appropriations Senate Letter



May 31st, 2017

Chairman Lamar Alexander  
Subcommittee on Energy and Water  
Development  
Committee on Appropriations  
186 Dirksen Senate Office Building  
Washington, D.C. 20510

Ranking Member Dianne Feinstein  
Subcommittee on Energy and Water  
Development  
Committee on Appropriations  
188 Dirksen Senate Office Building  
Washington, D.C. 20510

Dear Chairman Alexander and Ranking Member Feinstein:

We are writing on behalf of the U.S. community of approximately 6,000 scientists, engineers and students from 160 universities and DOE national labs that conducts research on high energy physics. We thank you for your continued support for the High Energy Physics (HEP) program in the DOE Office of Science. We are grateful for the letters you have already sent to President Trump supporting the DOE basic research programs. As you prepare a fiscal year 2018 Energy and Water Development appropriations bill, we strongly urge you to provide \$868 million for High Energy Physics in FY2018. This funding level is vital to maintain U.S. leadership in particle physics, move forward with world-class scientific projects, and meet scheduled commitments to our international partners.

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Stanford University  
Stanford, CA 94035

<https://goo.gl/r6NKkX>

# 2018 Appropriations

- House and Senate Energy and Water Appropriations Mark ups out
- House HEP received \$825 million, matches the 2017 budget
- Senate HEP received \$860 million (we asked for \$868M)
- Great to see that congress is releasing budget numbers at this level reflects on success of P5 and trip
- Remember the PBR HEP received \$672M

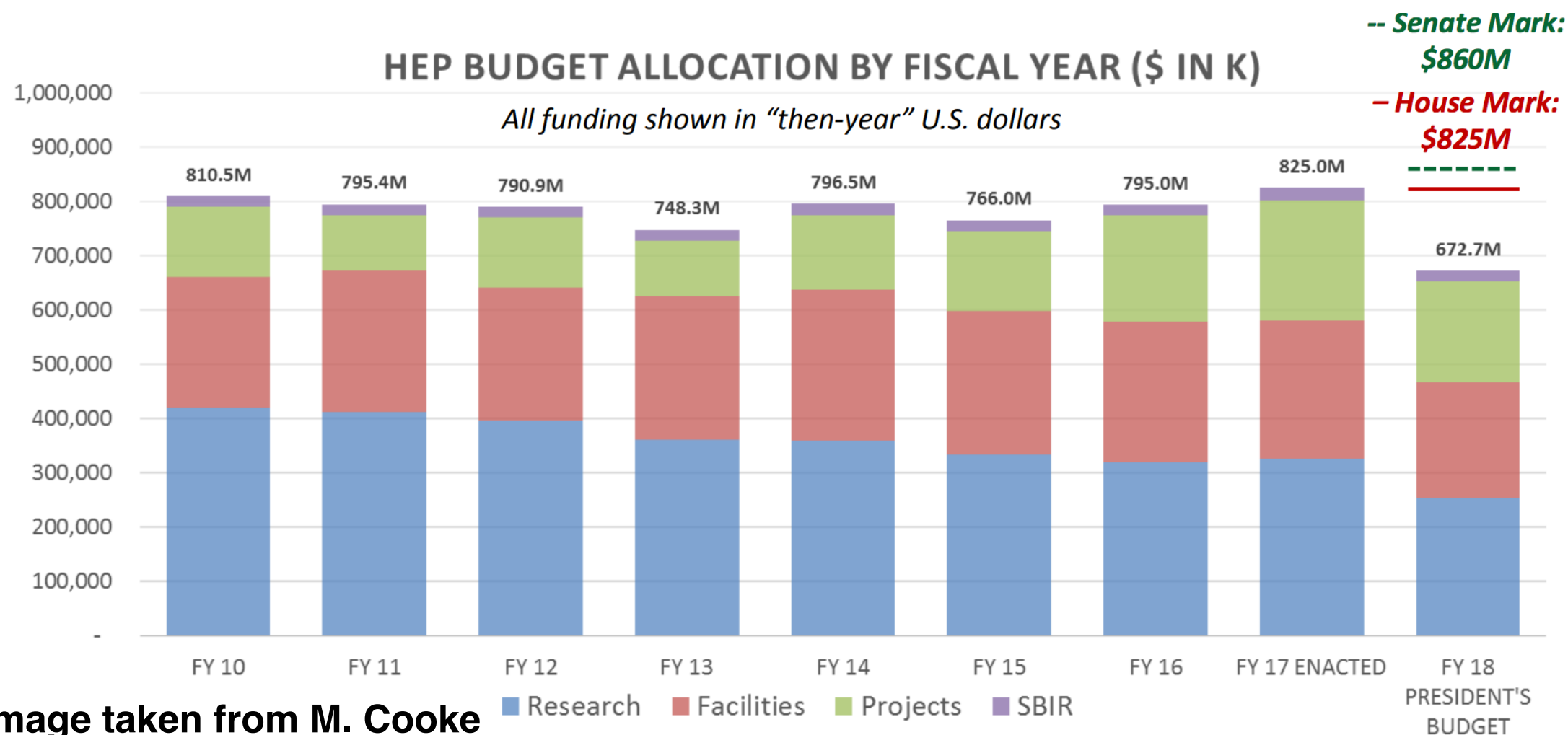


Image taken from M. Cooke  
HEP Civics talk Monday



# 2018 HEP Budget

- House and Senate Energy and Water Appropriations Mark ups out
- House **HEP received \$825 million, matches the 2017 budget**
- **Senate HEP received \$860 million (we asked for \$868M)**
- **Great to see that congress is releasing budget numbers that**
- **Remember the PBR HEP received \$672M**

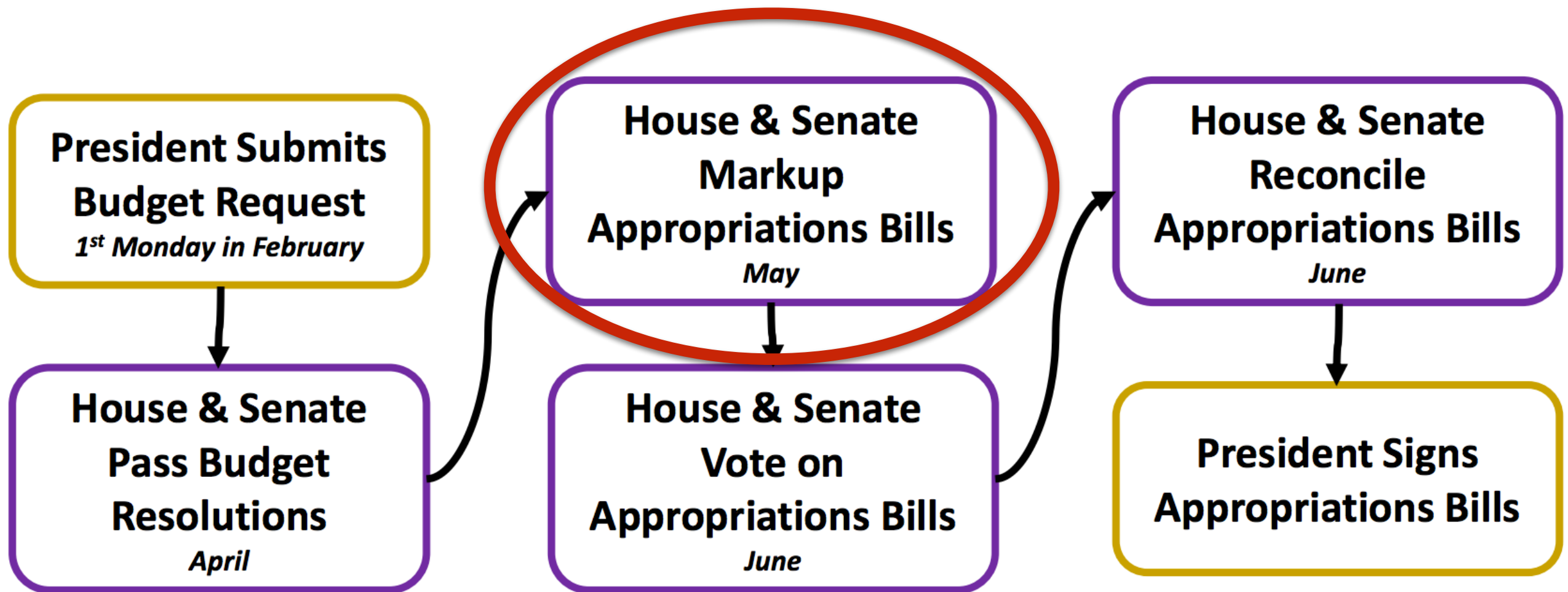


Image taken from M  
Cooke HEP Civics talk  
Monday

# Future Users trips

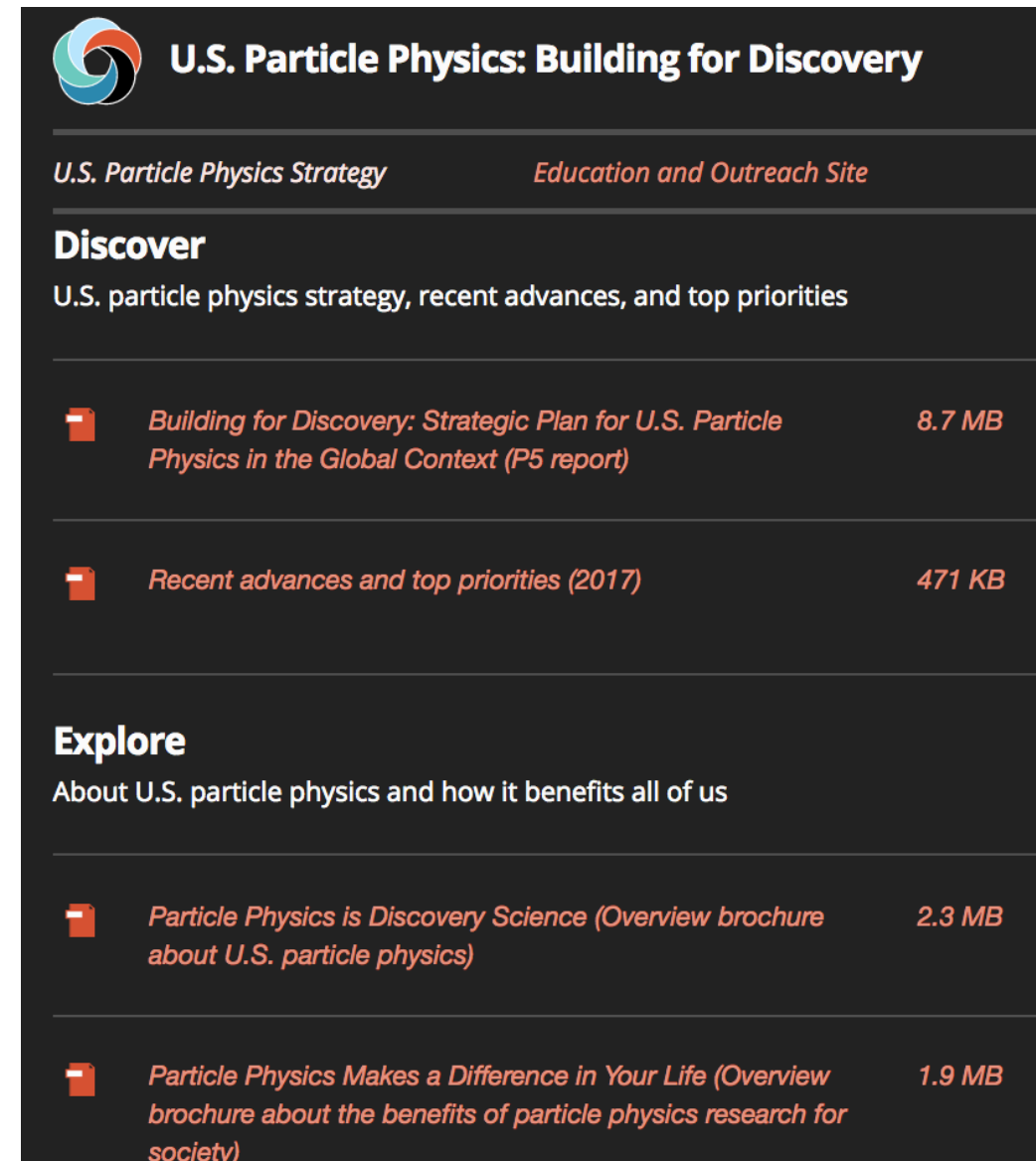
- October 2017 trip: It has been mentioned, by experts and by Appropriations staff during last trip, that a second small 2017 could be very useful
  - Had been waiting on the Mark ups to see where things fall
  - Momentum seems to be growing with this, need to follow up with experts and discuss funding options
- Nigel has requested that we received additional funding for the 2018 trip which seems to be going ahead. Will result in many additional people being brought on trip to hit key states need to think on the best way to reach out and find additional people for trip



# Planning for next year

- The new material we made last year will mostly be useable for next year with only small updates, all on [www.usparticlephysics.org](http://www.usparticlephysics.org)
  - What is HEP
  - Benefits of HEP
  - P5 brochure



For additional material will need to discuss with other groups to come up with list, remembering to take in feed back we could this year, and representing both DOE and NSF projects





**U.S. Particle Physics: Building for Discovery**

[U.S. Particle Physics Strategy](#) [Education and Outreach Site](#)

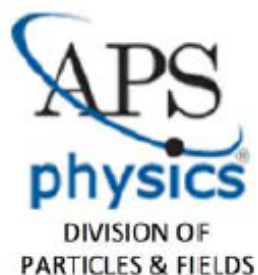
**Discover**  
U.S. particle physics strategy, recent advances, and top priorities

-  [Building for Discovery: Strategic Plan for U.S. Particle Physics in the Global Context \(P5 report\)](#) **8.7 MB**
-  [Recent advances and top priorities \(2017\)](#) **471 KB**

**Explore**  
About U.S. particle physics and how it benefits all of us

-  [Particle Physics is Discovery Science \(Overview brochure about U.S. particle physics\)](#) **2.3 MB**
-  [Particle Physics Makes a Difference in Your Life \(Overview brochure about the benefits of particle physics research for society\)](#) **1.9 MB**

[www.usparticlephysics.org/](http://www.usparticlephysics.org/)



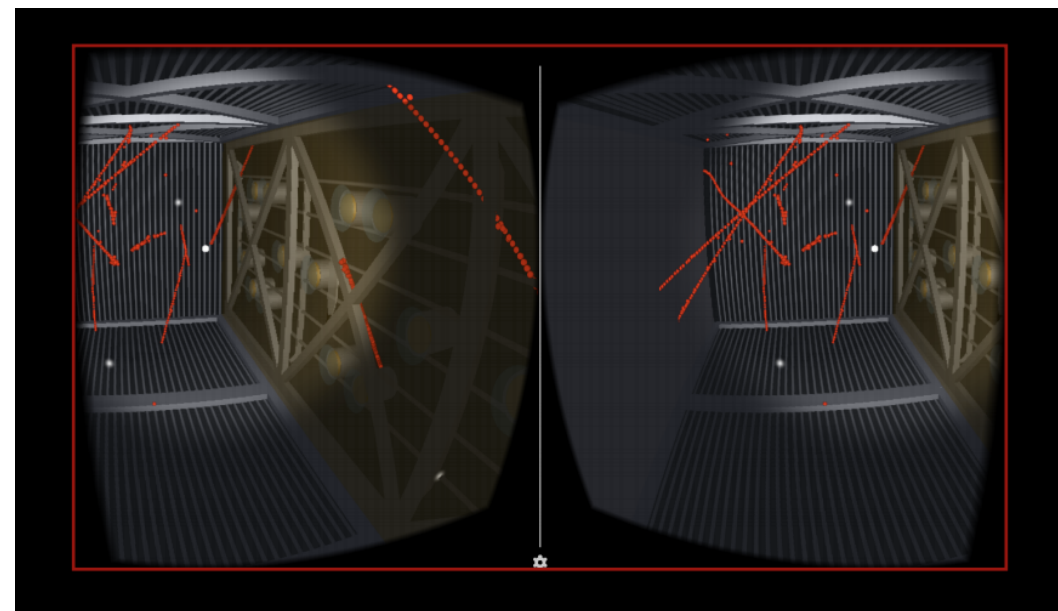
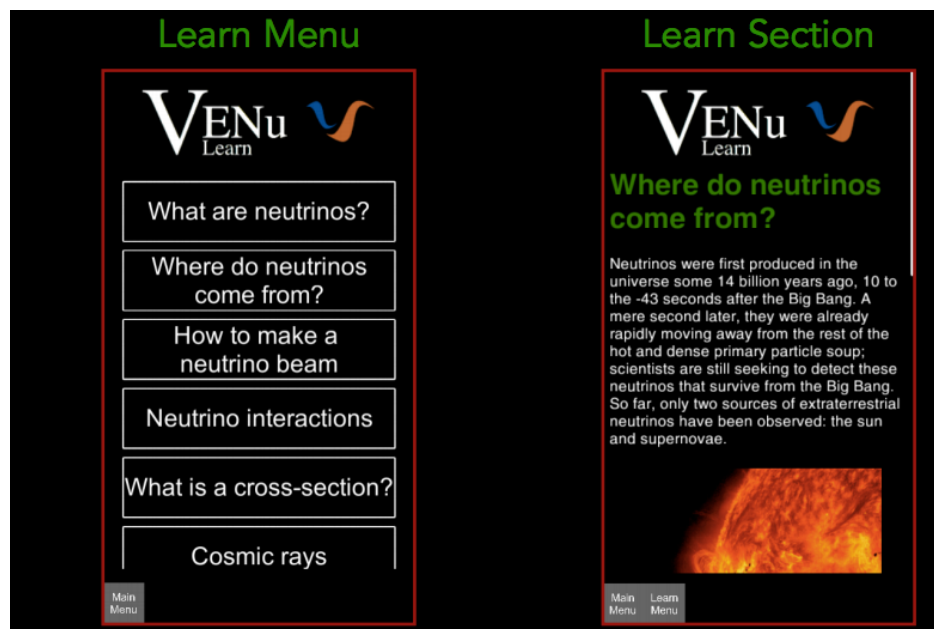
**Building for Discovery**

# Ideas from talks this week for next trip

were used by few people on last trip but can make them available to all for small cost

## VENu: The Virtual Environment for Neutrinos

<https://indico.fnal.gov/contributionDisplay.py?sessionId=20&contribId=173&confId=11999>



## US-CERN Virtual Visits - discussed with Julia Gonski this week

<https://indico.fnal.gov/getFile.py/access?contribId=94&sessionId=20&resId=0&materialId=slides&confId=11999>



A very young audience from **Poland** asking questions during a CMS Virtual Visit



An Iranian scientist guiding a CMS Virtual Visit from **Iran**



Guide answering questions from the ATLAS Control Room



# Meeting this week to discuss future of [www.usparticlephysics.org/](http://www.usparticlephysics.org/)

- I have a conflict but Joseph Zennamo went and can give report
  - Mike Cooke will be sending out notes which can be sent around
- For scientist or public?
- Who owns?
- What additional content should go on site?
- What about the education and outreach section





# Contacting congress

[VoteSmart.org](http://VoteSmart.org), they are a one stop shop for information on contacting all politicians.

To find your(a) representative

<http://www.house.gov/representatives/find/>

<https://www.govtrack.us/congress/members/map>

Senators contact info

[https://www.senate.gov/general/contact\\_information/senators\\_cfm.cfm](https://www.senate.gov/general/contact_information/senators_cfm.cfm)

Info on congressional staff

<http://congressional-staff.insidegov.com/>

Info on committee membership

<https://www.congress.gov/committees>

# 2017 Budget passed

- On May 1st 2017 Y17 Omnibus Bill released by House and Senate Appropriators
- DOE HEP fared quite well within Office of Science: **HEP received \$825 million, \$8 million more than the PBR**
  - FY16 enacted (\$795M), FY17 Pres Proposed (\$818M, +2.9%), FY17 Omnibus (\$825M, +3.8%)
- The HEP mark is between the original House and Senate marks of \$823M and \$833M respectively.
- **Of VERY significant note, HEP was the only area of Office of Science to fare better in the Omnibus than it did in the President's request.**

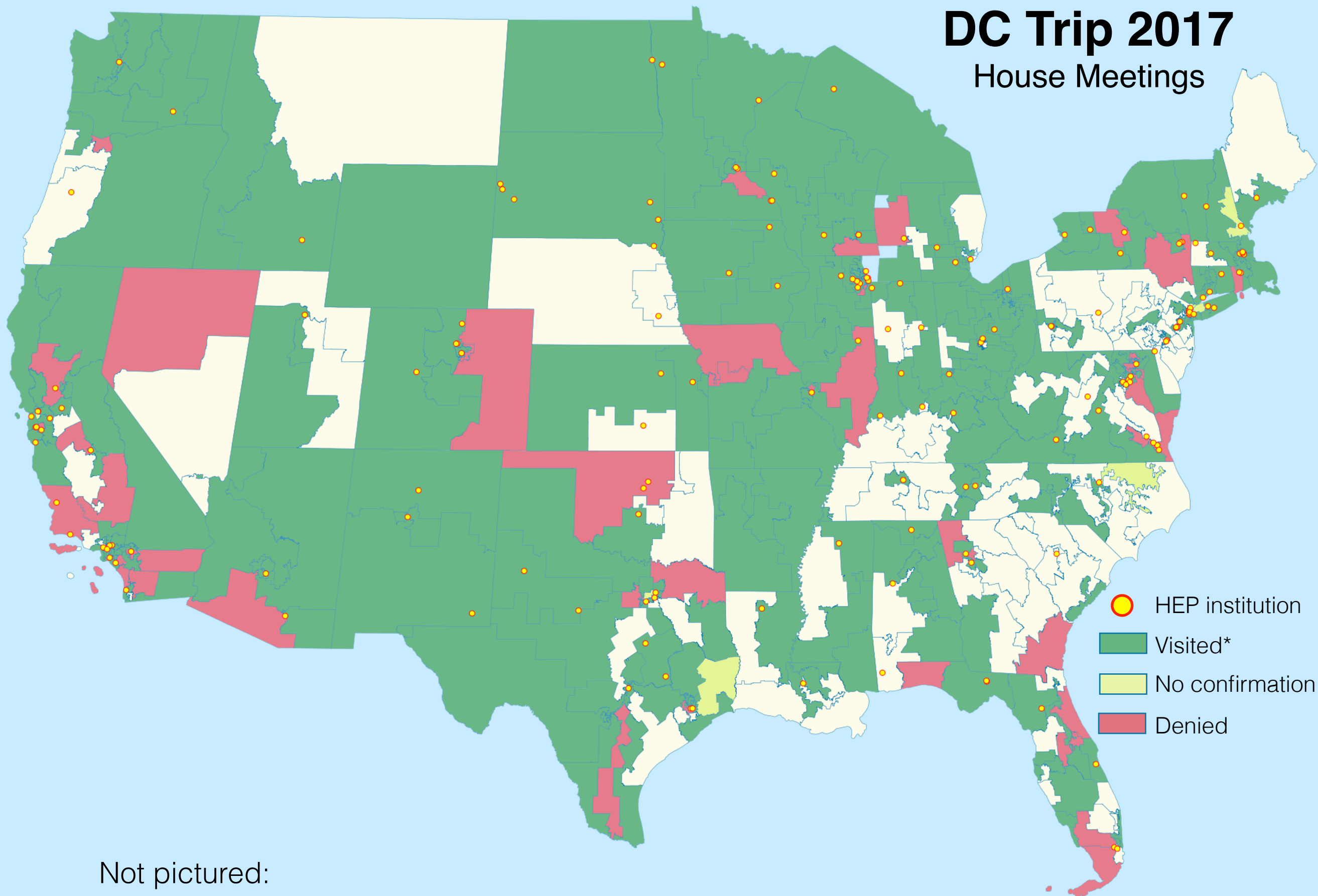
Reminder 2016 Ask was: Please support funding for HEP in FY 2017 by sponsoring:

- \$833M for HEO within the DOE Office of Science in the FY 2017 E&W Appropriations bill
- \$295M for Physics within the Directorate of Mathematical and Physical Sciences of the NSF in the FY 2017 CJS and Related Agencies Appropriations bill



# DC Trip 2017

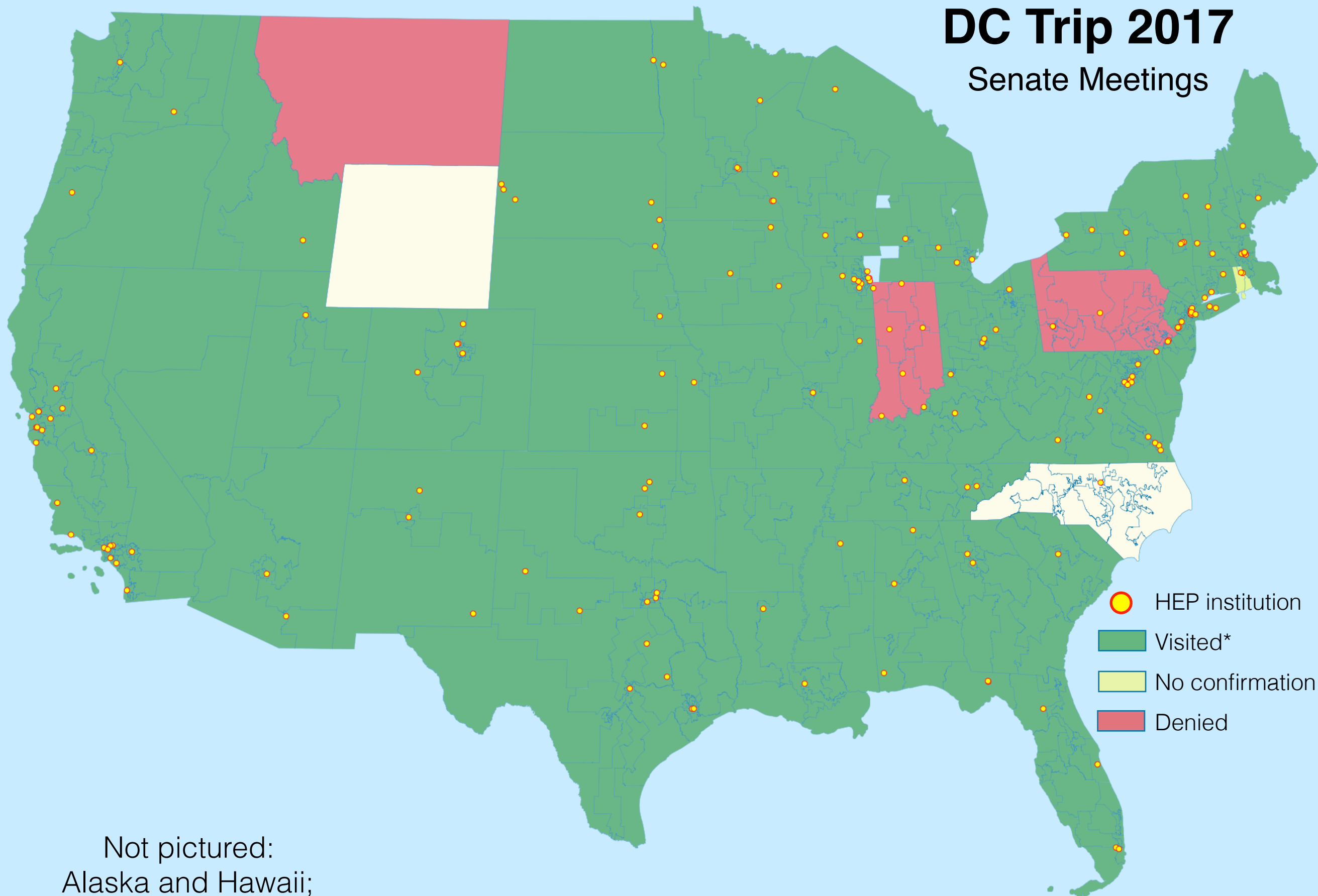
## House Meetings



Not pictured:  
Alaska - visited.

# DC Trip 2017

## Senate Meetings



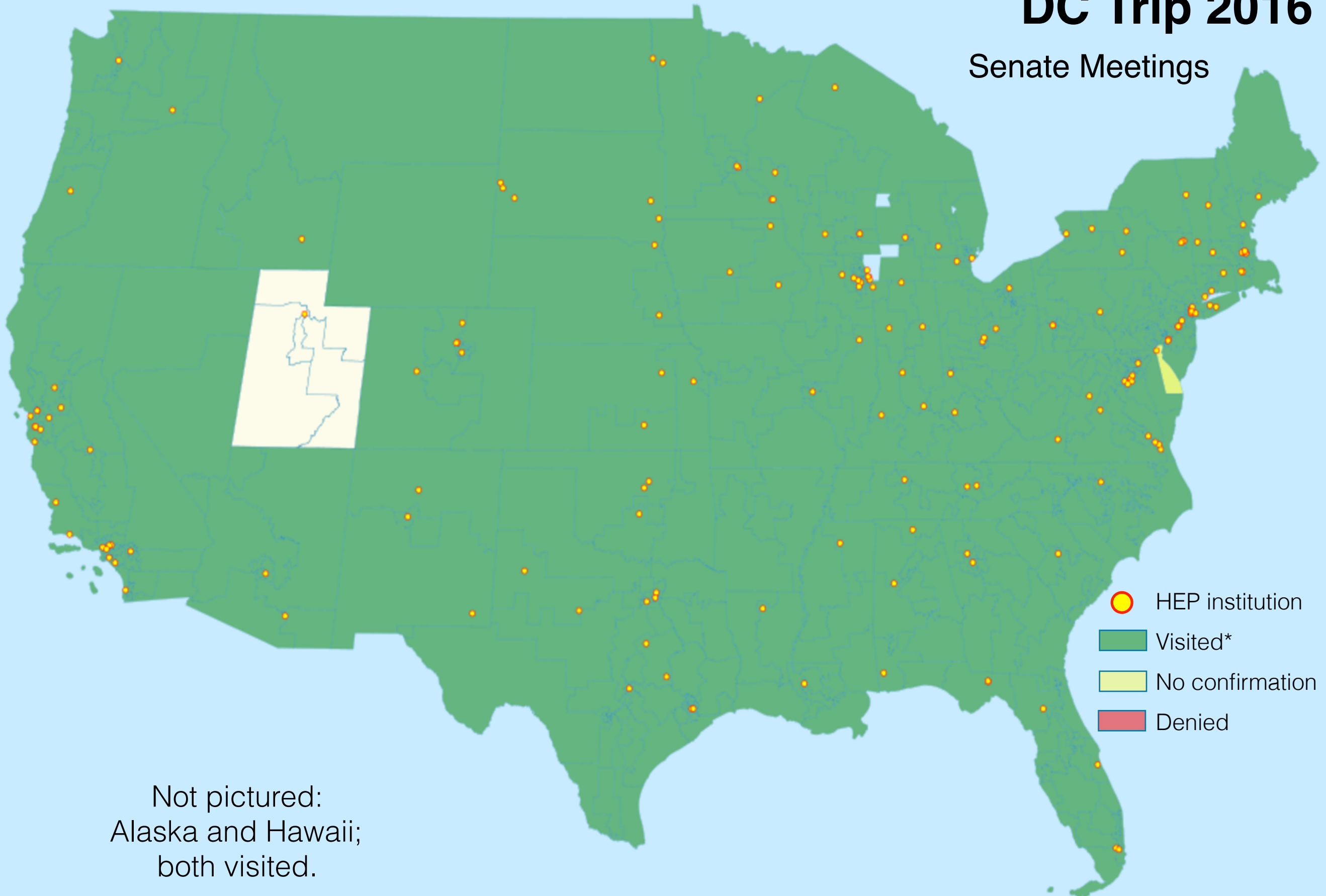
Not pictured:  
Alaska and Hawaii;  
both visited.

\* one or two Senators



# DC Trip 2016

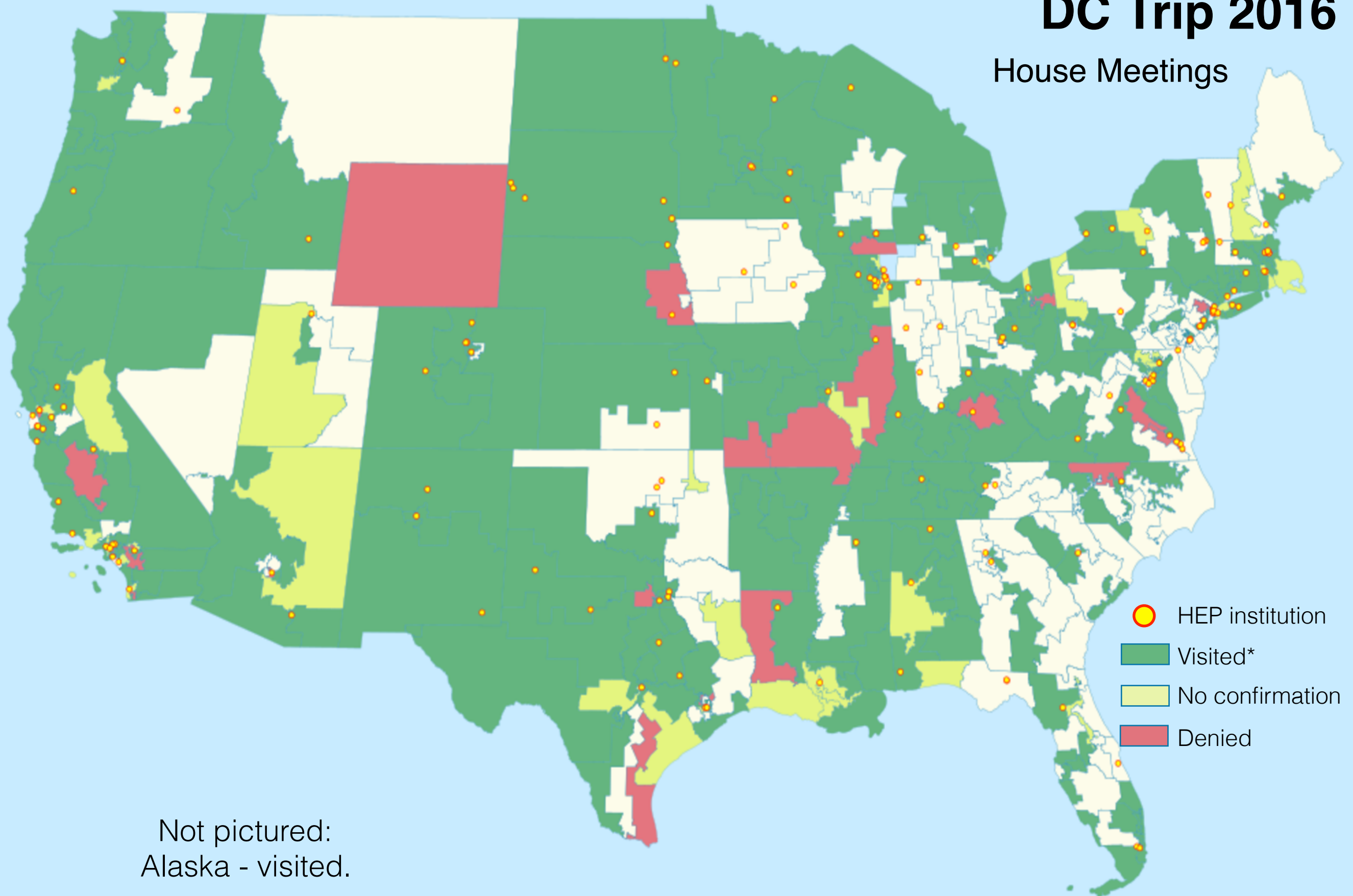
## Senate Meetings



\* one or two Senators

# DC Trip 2016

## House Meetings



\* one or two Senators